



STANDARD

5062

Cable type : **5062**
Reference : **EC1-50**

Cable with standard UV resistant PE jacket, halogen free according to IEC 60754

FLAME RETARDANT

HLFR

Cable type : **5062-HLFR**
Reference : **EC1-50-FR**

Cable with UV resistant, halogen free, low smoke, flame retardant jacket according to IEC 60754-2, IEC 60332-1-2, IEC 60332-3 Cat. C and IEC 61034-1+2

CHARACTERISTICS

Construction

- **Inner conductor**
 - Material copper clad aluminium wire
 - Diameter (mm) 2.4
- **Dielectric**
 - Material gas-injected cellular polyethylene
 - Diameter (mm) 6.5
- **Outer conductor**
 - Material corrugated copper tube
 - Diameter (mm) 7.5
- **Jacket**
 - Material black polyethylene
 - Thickness (mm) 1.1
 - Diameter (mm) 9.7

Mechanical

- **Minimum bending radius**
 - a) single bending (cm) 3
 - b) 15 repeated bends (cm) 8
- **Maximum pulling strength** (daN) 40
- **Recommended temperature range**
 - Storage -70 to +85°C
 - Installation -40 to +60°C
 - Operation -55 to +85°C
- **Maximum length per hoisting grip** (m) 70
- **Maximum hanger spacing** -
- **Flat plate crush resistance** (kg/mm) 0.8
- **Bending moment** (Nm) 1.5
- **Weight** (kg/km) 110

[1] a = 0.41769
b = 0.00115
 $\alpha(f) = a \cdot \sqrt{f} + b \cdot f$ [dB/100m]

Electrical

- **Characteristic impedance** (Ω) 50 \pm 1
- **Nominal capacity** (pF/m) 82
- **Relative propagation velocity** (%) 82
- **Inductance** (μ H/m) 0.200
- **DC-resistance at 20°C**
 - inner conductor (Ω /km) 5.85
 - outer conductor (Ω /km) 3.3
- **RF peak voltage** (kV) 0.83
- **RF peak power** (kW) 6.9
- **Cut-off-frequency** (GHz) 18.6
- **Insulation resistance** (M Ω .km) >>5000

Frequency (MHz)	Attenuation at 20°C(*) (dB/100m)	Mean power rating(**) (kW)
10	1.33	5.64
20	1.89	3.98
30	2.32	3.24
80	3.83	1.96
100	4.29	1.75
150	5.29	1.42
200	6.14	1.23
300	7.58	0.99
400	8.81	0.85
450	9.38	0.80
500	9.91	0.76
600	10.92	0.69
700	11.86	0.63
800	12.73	0.59
894	13.52	0.56
960	14.05	0.54
1000	14.36	0.52
1500	17.90	0.42
1700	19.18	0.39
1800	19.79	0.38
1880	20.27	0.37
2000	20.98	0.36
2170	21.95	0.34
2200	22.12	0.34
2300	22.68	0.33
2400	23.22	0.32
2500	23.76	0.32
3000	26.33	0.29
4000	31.02	0.24
6000	39.25	0.19

(*) nominal values

(**) Ambient temperature = 40°C; Temperature of inner conductor = 100°C; VSWR = 1.0; no solar loading